



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Biopesticides and Pollution Prevention Division (7511P)  
 1200 Pennsylvania Ave., N.W.  
 Washington, D.C. 20460

EPA Reg. Number:

48222-15

Date of Issuance:

4/1/2020

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Sysstem-Cal Blue

Name and Address of Registrant (include ZIP Code):

Agro-K Corporation  
 8030 Main Street  
 Minneapolis, MN 55432

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.
2. Make the following labeling change before you release this product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 48222-15."

Signature of Approving Official:

Andrew Bryceland, Team Leader  
 Biochemical Pesticides Branch  
 Biopesticides and Pollution Prevention Division (7511P)  
 Office of Pesticide Programs

Date:

4/1/2020

3. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 01/07/2020

Any CSFs other than those listed above are superseded.

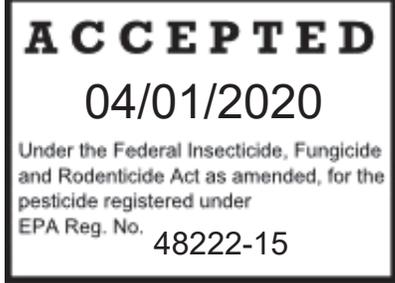
If you have any questions, please contact Gina Burnett of my team by phone at (703) 605-0513 or via email at [burnett.gina@epa.gov](mailto:burnett.gina@epa.gov).

Sincerely,



Andrew Bryceland, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure



[ ] – Brackets denote optional text

# System<sup>®</sup>-Cal Blue

[[A Calcium Enriched] Fungicide]  
ACTIVE INGREDIENTS:

Calcium Salts of Phosphorous Acid*.....	7.87%
Phosphorous Acid**.....	13.4%
Copper Sulfate Pentahydrate <sup>+</sup> .....	1.1%
<b>OTHER INGREDIENTS</b> .....	<b>77.23%</b>
<b>TOTAL</b> .....	<b>100.0%</b>

\*Contains 0.79 lbs/gal of Calcium Salts of Phosphorous Acid

\*\*Contains 1.35 lbs/gal of Phosphorus Acid

<sup>+</sup>Contains 0.03 lbs/gal of elemental Copper

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER-PELIGRO**

*Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)*

<b>FIRST AID</b>	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>Call poison control or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water, if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the oison control center or doctor</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>Move person to fresh air</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call poison control center or doctor for further treatment,</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.</p>	
<p style="text-align: center;"><b>Hotline Number</b></p> <ul style="list-style-type: none"> <li>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</li> <li>For medical emergencies, call the poison control center at 1-800-222-1222</li> <li>For general information on this product, call 1-800-328-2418 between the hours of 8AM-4PM CST, or contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8AM to 12PM PST, or at <a href="http://npic.orst.edu">http://npic.orst.edu</a>.</li> </ul>	

[See [Back] [Side] [Other] Panel for Precautionary Statements]

EPA Reg. No. 48222-\_\_\_\_

EPA Est. No. 48222-MN-001

Net Contents: \_\_\_\_\_ Gallons

Batch No.: \_\_\_\_

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

#### **DANGER – PELIGRO**

**DANGER:** Causes irreversible eye damage. Do not get in eyes or on clothing. May be fatal if inhaled. Do not breathe vapor or spray mist. Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt and long pants, shoes plus socks, protective goggles, waterproof or chemical resistant gloves, and a NIOSH approved respirator with an organic vapor (OV) cartridge with any combination N, R or P filter with NIOSH approval number prefix TC – 84A; or a NIOSH approved gas mask with an organic vapor canister with NIOSH approval number prefix TC – 14G; or a NIOSH approved powered air purifying respirator with organic vapor (OV) cartridge and combination HE filter with NIOSH approval number prefix TC – 23C). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or, using the toilet. Remove and wash contaminated clothing before reuse

#### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear long-sleeved shirt and long pants, shoes plus socks, waterproof or chemical resistant gloves, protective goggles, and a NIOSH approved respirator with an organic vapor (OV) cartridge with any combination N, R or P filter with NIOSH approval number prefix TC – 84A; or a NIOSH approved gas mask with an organic vapor canister with NIOSH approval number prefix TC – 14G; or a NIOSH approved powered air purifying respirator with organic vapor (OV) cartridge and combination HE filter with NIOSH approval number prefix TC – 23C). . Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS

#### **USERS SAFETY RECOMMENDATIONS**

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

#### **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers to be in the area during application. For any Requirements specific to your state or Tribe, consult the state or tribal agency responsible for pesticide regulation.

### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Workers Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is: coveralls over long-sleeved shirt and long pants, socks, shoes, chemical resistant gloves and protective eyewear.

### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

## **AGRICULTURAL USE INSTRUCTIONS**

### **GENERAL APPLICATION INSTRUCTIONS**

Apply this product by various application methods, including foliar spray (aerial and ground), soil drench, soil incorporation and bare root dip. For foliar sprays, apply this product with sufficient water volumes for adequate coverage of foliage, according to crop and growth stage.

Make applications prior to disease development in conjunction with good cultural management practices. Do not exceed the use rates or apply more frequently than the specified interval or plant injury can occur. Do not apply to plants that are heat or moisture stressed. Allow foliage to dry completely after application. Do not apply when conditions favor wet plant tissues for prolonged periods (>4 hours).

### **MIXING INSTRUCTIONS**

1. Fill the spray tank with 1/2 to 3/4 of the required volume of water before adding the product.
2. Add the product slowly to the tank and agitate by hydraulic or mechanical means.
3. Continue to fill the tank with water to the desired volume while agitating.
4. Continue agitation when applying.

### **COMPATIBILITY**

This product is compatible with most products used in agriculture. However, crop sensitivity to these mixtures may vary. If these combinations or others have not been previously used, do not tank mix without first testing the mixture's compatibility nor apply it without assessing its safety to the crop (Phytotoxicity).

The use of spray adjuvants (i.e. stickers, spreaders, wetting agents) will enhance this products performance. If an adjuvant is used with this product, test before use for compatibility. Do not use strongly acidifying compatibility agents.

To determine the compatibility of this product with other products, use a jar compatibility test. Add the correct proportions of each product and the appropriate quantity of water to clean container, thoroughly mix, then let stand for 3-5 minutes. If the mixture remains in solution or can be remixed readily, the products are considered compatible.

To determine if a combination is phytotoxic to a specific crop, spray a few plants/trees/vines, then evaluate 3-7 days later for visual effects.

**CHEMIGATION:** Apply this product only through the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, and hydroponic solutions. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS:** Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water system must contain a functional, reduced pressure zone (RPZ) backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or, in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Use a pesticide supply tank that is equipped with a means for continuous agitation either by recirculation or a mechanical agitator. Charge the supply tank with the appropriate amount of water and add the pesticide slowly followed by any sticker- spreaders, insecticides, nutrients, etc. Observe all directions, cautions and limitations on the label of the product(s) being mixed.

For fixed position irrigation systems, apply the pesticide towards the end of the irrigation period. Exact timing will depend on the desired pesticide application rate and calibration of the system. Apply the pesticide continuously through irrigation systems that move and do not irrigate the same or fixed area during the irrigation cycle.

Complete the pesticide injection in sufficient time to allow the pesticide to be completely flushed out of the irrigation system before the system is shut down.

**SPRINKLER CHEMIGATION:** The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Use a pesticide supply tank that is equipped with a means for continuous agitation either by recirculation or a mechanical agitator. Charge the supply tank with the appropriate amount of water and add the pesticide slowly followed by any sticker- spreaders, insecticides, nutrients, etc. Observe all directions, cautions and limitations on the label of the product(s) being mixed.

For fixed position irrigation systems, apply the pesticide towards the end of the irrigation period. Exact timing will depend on the desired pesticide application rate and calibration of the system.

Apply the pesticide continuously through irrigation systems that move and do not irrigate the same (fixed) area during the irrigation cycle.

Complete the pesticide injection in sufficient time to allow the pesticide to be completely flushed out of the irrigation system before the system is shut down.

### GENERAL HYDROPONIC APPLICATION [\*]

General Root Rots ( <i>Pythium</i> , <i>Phytophthora</i> )	For use with plants grown in recirculating hydroponic systems to aid in the control of pathogens.	Add 1-3 quarts [(1-3 L)] SYSSTEM-CAL BLUE per 5,000 gallons [(20,000 L)] nutrient solution.	Repeat every 4-6 weeks in summer and every eight weeks in winter. Depending on crop load and the water quality, the application time interval may be reduced.
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[\*Not registered for use in California.]

**Note: For Recirculating (i.e. closed systems) use only.**

## AVOCADO

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Canker <i>(Phytophthora citricola)</i>	Trunk Spray	Mix 1.5-3 quarts [(3.5-7 L)] in 5 gallons [(20 L)] of water. Add 0.25% wetting agent to the solution.	Apply to trunk lesions using enough spray volume to thoroughly wet the lesions. In the absence of lesions, apply to the trunk from the soil line to about two feet up the trunk. Use the higher rate when lesions are present. Apply one time in the Spring,
Root Rot <i>(Phytophthora cinnamomi)</i>	Foliar Spray Aerial:  Ground:	Apply 1.5-3 quarts/acre [(3.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.  Apply 3 quarts/acre [(7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	Apply up to 6 applications per year at 4-8 week intervals at the start of the growing season.
	Chemigation Low Volume:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	Apply one time in the Spring, Summer and Fall.
	Foliar Spray Ground:	Apply 2-3 quarts/acre [(5-7L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.  [SYSTEM-CAL BLUE is most effectively applied to control powdery mildew when tank mixed with other registered fungicides.]	Apply at the first onset of the disease and repeat at 7-10 day intervals until disease abatement.

[\*Not registered for use in California.]

**[\*]BANANA**

<b>DISEASE</b>	<b>APPLICATION METHOD</b>	<b>APPLICATION RATE</b>	<b>APPLICATION PROGRAM</b>
[*]Suppression of Root Rot Complex and Sigatoka	Foliar Spray	Apply 1-3 quarts/acre [(2.5-7 L/ha)]. At the low rate, use 3 gallons/acre [(25 L/ha)] of water and at the high rate, use 6 gallons/acre [(50 L/ha)] of water.	Apply every 4 weeks as needed.
	Aerial:		
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 15 gallons/acre [(150 L/ha)] of water.	
	Chemigation	Apply 2-3 quarts/acre [(5-7 L/ha)] in at least 100 gallons/acre [(1,000 L/ha)] of water.	Apply 4 times per year.
[*]Suppression of Bunch Diseases	Foliar Spray	Mix a 0.75-1 % v/v spray solution (4 fl oz/10 gallons of water or [300 ml/L] of water).	Apply a full cover spray to the fruit bunches when the flower rachis are fully expanded (approximately at bunch cover) and again 14 days

[\*Not registered for use in California.]

## BERRY CROPS:

Blackberry, Boysenberry, Blueberry, Dewberry, Elderberry, Loganberry, Marionberry, Evergreen Berry, Cranberry, Boysenberry, and Raspberry

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium spp.</i>	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.	Begin applications in the Spring after bud break (1-3 inches of new growth) and when conditions favor disease development. <b>Disease Prevention/Low Pressure Program*</b> : Apply lower rate at 2-3 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*</b> : Apply higher rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
	Root Dip	Mix a 3% v/v solution (1.5 quarts/10 gallons of water or [(2.5 L/40 L)] of water).	Apply as pre-plant dip to the roots for 5 seconds. Plant within 48 hours after dipping. Mix a fresh solution daily.
	Chemigation Overhead:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 4 times per crop cycle.
Low Volume:	Apply 2- quarts/acre [(5L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.		
Downy Mildew	Foliar Spray Aerial:	Apply 1-2 quarts/acre [(2.5-5L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-2 quarts/acre [(2.5-5 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
[*] <b>Suppression</b> of General Leaf and Berry Diseases such as those caused by <i>Septoria spp</i> and <i>Anthracoese spp.</i>	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.  Ideally SYSTEM-CAL BLUE is best used in combination with conventional registered fungicides to increase the performance of the disease control program.
Ground:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.		

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
[*]Suppression of Powdery Mildew	[Foliar Spray] [Aerial:]  [Ground:]	[Apply 1.5-2 quarts/acre [(3.5-5 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.]  [Apply 1.5-2 quarts/acre [(3.5-5 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water. SYSTEM-CAL BLUE is most effectively applied to control powdery mildew when tank mixed with other registered fungicides.]	[Low Disease Pressure*]: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.]  [High Disease Pressure*]: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.]

[\*Not registered for use in California.]

## BULB VEGETABLE CROPS:

Garlic, Leek, Onion (dry bulb and green), and Shallot

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium spp.</i>  [*] <i>Suppression</i> ** of Bacterial Diseases	Foliar Spray	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	Begin applications after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*</b> : Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*</b> : Apply higher rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.
	Aerial:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
	Ground:	Apply 4 pints at planting or to newly planted seedling by side dressing or shank application.	
	Transplant and Furrow Application:		
	Chemigation Overhead:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
	Low Volume:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
Downy Mildew	Foliar Spray	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 10-14 day intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
	Ground:		

[\*Not registered for use in California.]

## BRASSICA CROPS:

Broccoli, Brussels Sprouts, Cabbage, Chinese Cabbage Cauliflower, Collards, Kale, Kohlrabi, and Mustard Greens

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root Rots and Damping Off <i>(Phytophthora and Pythium spp.)</i>  <b>[*]Suppression of Bacterial Diseases</b>	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	Begin applications after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*:</b> Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
	Pre Plant Seedling Nursery treatment:	Apply 1 qt/100 gallons water to nursery plants in seedling trays 17 days prior to out planting.	
	Transplant and Furrow Application:	Apply 1.5 quarts/acre (3.5 L/ha) at planting or to newly planted seedling by side dressing or shank application.	
	Chemigation Overhead:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
	Low Volume:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
Downy Mildew	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
<b>[*]Suppression of [Powdery Mildew,] Leaf Diseases caused by <i>Septoria, Colletotrichum, and Alternaria</i></b>	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
Ground:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.		

[\*Not registered for use in California.]

## CEREAL GRAINS, FORAGE AND FIBER CROPS:

Alfalfa, Barley, Clover (all types), Corn (all types), Millet, Oats, Popcorn, Rye, Sorghum, Sugarcane, and Wheat

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium spp.</i>  [*]Suppression of <i>Fusarium spp.</i> , <i>Rhizoctonia spp.</i> , and Head Diseases	Foliar Spray	Apply 0.5-2 quarts/acre (1.5-5 L/ha) in a minimum of 15 gallons/acre [(140 L/ha)] of water.	Begin application after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*</b> : Apply lower rate at 2-4 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*</b> : Apply higher rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.
	Aerial:		
	Ground:	Apply 0.5-3 quarts/acre (1.5-7 L/ha) in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
	Chemigation Overhead:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
	Low Volume:	Apply 2-4 quarts/acre [(5-9 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
Downy Mildew	Foliar Spray	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 15 gallons/acre [(140 L/ha)] of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Aerial:		
	Ground:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
[*]Suppression of Powdery Mildew	Foliar Spray	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 15 gallons/acre [(140 L/ha)] of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Aerial:		
	Ground:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	

[\*Not registered for use in California.]

## CITRUS CROPS:

Citrus Citron, Clementines, Grapefruit, Kumquat, Lemon, Lime, Mandarin, Orange and Pummelo

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root, Trunk and Crown Rots <i>(Phytophthora spp.)</i>	Foliar Spray Aerial:	Apply 2 quarts/acre [(5 L/ha)] in a minimum of 15 gallons/acre [(140 L/ha)] of water.	Apply 3-4 times per year during the Spring, Summer, and Fall when conditions favor disease development.
	Ground:	Apply 2 quarts/acre [(5 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
	Chemigation Low Volume:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	Apply with normal irrigation schedule. Follow Foliar Spray <b>APPLICATION PROGRAM</b> as stated above. Do not apply more than 4 times per crop cycle.
	Trunk and Scaffold Branches Spray:	Mix 1-3 quarts [(2.5-7 L)] in 5 gallons [(20 L)] of water and apply with a wetting agent or adjuvant on and around the affected area.	Use higher rates when lesions are present. Clean the wound site and apply on and around the lesions using enough spray volume to thoroughly wet the lesions. In the absence of lesions, use the lower rate and apply to the trunk from the soil line to 2 feet up the trunk. Apply in Spring, Summer, and Fall.
[*]Suppression of Pre-Harvest Blue and Green Mold & Brown Rot <i>(Phytophthora citricola)</i>	Foliar Spray Ground:	Apply 2 quarts/acre [(5 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	Apply 2-4 weeks prior to harvest. Ensure that fruit is thoroughly covered by the spray application.
[Downy Mildew]	[Foliar Spray] [Aerial:]  [Ground:]	[Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.]  [Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.]	[Apply at 2-3 week intervals and repeat as needed.]
[*]Suppression of Powdery Mildew]	[Foliar Spray] [Aerial:]  [Ground:]	[Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.]  [Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.] <b>[SYSTEM-CAL BLUE</b> is most effectively applied to control downy mildew when tank mixed with other registered fungicides.]	[Apply at 2-3 week intervals and repeat as needed.]

[\*Not registered for use in California.]

## CUCURBIT CROPS:

Waxgourd, Citron Melon, Cucumber, Cantaloupe, Gourd (edible), Muskmelon, Pumpkin, Summer and Winter Squash and Watermelon

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root Rots and Damping Off <i>(Phytophthora and Pythium spp.)</i>	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	Begin applications after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.  <b>Disease Control/High Pressure Program*:</b> Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
	Pre-Plant Seedling Nursery Application:	Apply 1 qt/100 gallons water to nursery plants in seedling trays 17 days prior to out	
	Transplant and Furrow Application:	Apply 3 pints at planting or to newly planted seedling by side dressing or shank application.	
	Chemigation Overhead:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	
Low Volume:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.	
Downy Mildew	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.  <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water  SYSSTEM-CAL BLUE is most effectively applied to control downy mildew when tank mixed with other registered fungicides.	
<b>[*]Suppression of Powdery Mildew and other Leaf Diseases such as Anthracnose and Alternaria Leaf Blight</b>	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.  <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.		

[\*Not registered for use in California.]

## FRUITING VEGETABLE CROPS (Except Cucurbits):

Pepper (Bell, Chili), Tomato and Eggplant

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Damping Off and Root Rots ( <i>Phytophthora</i> and <i>Pythium spp.</i> )  [*]Suppression of Bacterial Diseases	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	Begin applications after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*:</b> Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.  For control of Bacterial leaf spot of Tomato, apply the high rate of SYSTEM-CAL BLUE with registered bactericides.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
	Pre-Plant Seedling Nursery Application:	Apply 1 qt/100 gallons water to nursery plants in seedling trays 17 days prior to out planting.	
	Transplant and Furrow Application:	Apply 3 pints at planting or to newly planted seedling by side dressing or shank application.	
	Chemigation Overhead:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
	Low Volume:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
Downy Mildew	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
[*]Suppression of Powdery Mildew and other Leaf Diseases such as Anthracnose and Alternaria Leaf Blight	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	

[\*Not registered for use in California.]

## GRAPES

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<p>Root Rots (<i>Phytophthora</i> and <i>Pythium spp.</i>)</p>	<p>Foliar Spray Aerial: Ground:</p>	<p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 15 gallons/acre [(140 L/ha)] of water.</p> <p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 50 gallons/acre [(470 L/ha)] of water.</p>	<p>Apply to vines that have stressed root system that can lead to root rots. factors such as nematode pressure, water logging and compaction contribute to vine declines.</p> <p>Table Grapes: Begin applications in the Spring at the 4-6 inch shoot stage. Continue applications at 1-2 week intervals until flowering. Resume applications in the Fall after harvest. Do not apply more than 4 times per crop cycle.</p> <p>Wine and Raisin Grapes: Begin applications in the Spring at the 4-6 inch shoot stage. Continue applications at 1-2 week intervals through flowering. Do not apply more than 4 times per crop cycle.</p>
<p>Downy Mildew</p>	<p>Foliar Spray Aerial:  Ground:</p>	<p>Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 15 gallons/acre [(140 L/ha)] of water.</p> <p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 50 gallons/acre [(470 L/ha)] of water.</p> <p>[SYSTEM-CAL BLUE is most effectively applied to control downy mildew when tank mixed with other registered fungicides.]</p>	<p>Begin applications at bud break with additional applications made at 7-10 day intervals in rotational programs with other labeled fungicides. Use higher rates and volumes based on disease density of canopy. Do not apply more than 6 times per crop cycle.</p>
<p>[*]Suppression of Powdery Mildew</p>	<p>Foliar Spray Aerial:  Ground:</p>	<p>Apply 1.5-2 quarts/acre [(3.5-5 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.</p> <p>Apply 1.5-2 quarts/acre [(3.5-5 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.</p> <p>[SYSTEM-CAL BLUE is most effectively applied to control powdery mildew when tank mixed with other</p>	<p><b>Low Disease Pressure*:</b> Apply lower at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*:</b> Apply higher at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>

[\*Not registered for use in California.]

## HERB AND SPICE CROPS:

Chive, Cinnamon, Clove, Coriander, Dill, Ginseng, Mint, Nutmeg, Parsley, and Rosemary

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root Rots and Damping Off ( <i>Phytophthora</i> and <i>Pythium spp.</i> )  [*]Suppression of <i>Fusarium spp.</i> and <i>Rhizoctonia spp.</i>	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	Begin application after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*:</b> Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
Pre-Plant Nursery Treatment:	Apply 1 qt/100 gallons water to nursery plants in seedling trays 17 days prior to out planting.		
Transplant and Furrow Application:	Apply 3 pints at planting or to newly planted seedling by side dressing or shank application.		
	Chemigation Overhead:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
	Low Volume:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
Downy Mildew	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
[*]Suppression of Powdery Mildew	Foliar Spray Aerial:	Apply 1.5-2 quarts/acre [(3.5-5 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1.5-2 quarts/acre [(3.5-5 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	

[\*Not registered for use in California.]

[\*]HOPS

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Downy Mildew	Foliar Spray Aerial:  Ground:	Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.  Apply 1-3 quarts/acre [(2.5-7L/ha)] in a minimum of 25 gallons/acre [(235 L/ha)] of water.	Make applications during favorable development conditions; 1)when shoots are 6-12 inches high; 2)after training when vines are 5-6 feet tall; application; and 4) during bloom.  During periods of high disease pressure, apply at 7-10 day intervals until disease abatement. Do not apply more than 6 applications per season.
[*]Suppression of Powdery Mildew	[Foliar Spray] [Aerial:]  [Ground:]	[Apply 1.5-3 quarts/acre [(3.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.]  [Apply 1.5-3 quarts/acre [(3.5-7L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.]  [SYSTEM-CAL BLUE is most effectively applied to control powdery mildew when tank mixed with other registered fungicides.]	[Low Disease Pressure*]: Apply lower at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.] [High Disease Pressure*]: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.]

[\*Not registered for use in California.]

## LEAFY VEGETABLE CROPS (Except Brassica Vegetables):

Celery, Endive (Escarole), Lettuce , Parsley, Chicory, Rhubarb, Spinach and Chard

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Damping Off and Root Rots <i>(Phytophthora and Pythium spp.)</i>	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	Begin application after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*</b> : Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*</b> : Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
	Pre-Plant Nursery Application:	Apply 1 qt/100 gallons water to nursery plants in seedling trays 17 days prior to out planting.	
	Chemigation Overhead:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
	Low Volume:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
	Transplant and Furrow Application:	Apply 3 pints at planting.	
Downy Mildew	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
<b>[*]Suppression of Powdery Mildew and Leaf Diseases such as Anthracnose</b> <i>(Colletotrichum spp.), Leaf Blights (Septoria &amp; Cercospora spp.) and Bacterial Rots (Erwinia spp.)</i>	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.  [SYSSTEM-CAL BLUE is most effectively applied to control powdery mildew when tank mixed with other registered fungicides.]		

[\*Not registered for use in California.]

## LEGUME CROPS (Except Brassica Vegetables):

Bean (Lupins, all), Bean (Kidney, Lima, Navy, Pinto, Snap and Wax), Bean (Asparagus, Blackeyed), Broad Bean (Fava), and Chickpea (Garbanzo)

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium spp.</i>  <b>[*]Suppression</b> <i>Fusarium spp.</i> and <i>Rhizoctonia spp.</i>	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	Begin applications after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*:</b> Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
Pre-Plant Nursery Application:	Apply 1 qt/100 gallons water to nursery plants in seedling trays 17 days prior to out planting.		
Transplant and Furrow Application:	Apply 3 pints at planting or to newly planted seedling by side dressing or shank application.		
	Chemigation Overhead:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
	Low Volume:	Apply 2-4 quarts/acre [(5-9 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
	Transplant and Furrow Application:	Apply 3 pints at planting.	
Downy Mildew	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<p><b>[*]Suppression of Powdery Mildew and Leaf Diseases such as Anthracnose (<i>Colletotrichum spp.</i>), Leaf Blights (<i>Septoria</i> &amp; <i>Cercospora spp.</i>) and Bacterial Rots (<i>Erwinia spp.</i>)</b></p>	<p>Foliar Spray Aerial:</p> <p>Ground:</p>	<p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.</p> <p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.</p> <p>[SYSTEM-CAL BLUE is most effectively applied to control powdery mildew when tank</p>	<p><b>Low Disease Pressure*</b>: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*</b>: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>

[\*Not registered for use in California.]

## **MISCELLANEOUS FOOD CROPS:**

Asparagus, Cacao, Coffee, Corn (all types), Guava, Carambola, Okra, Papaya, Persimmons and Sugarbeet

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium spp.</i>  <b>[*]Suppression of Bacterial and Leaf Diseases such as Coffee Berry Disease, (<i>Colletotrichum</i></b>	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	Begin application after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*:</b> Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(280 L/ha)] of water.	
<i>spp.</i> , Anthracnose ( <i>Colletotrichum spp.</i> ), and Various Leaf Spots  <i>(Septoria and Cercospora spp.)</i>	Root Dip:	Mix a 0.25% v/v solution (1/3 fl oz/1 gallon of water or [(2.5 ml/L)] of water).	Apply as pre-plant dip to transplants immediately prior to planting. Dip plants momentarily and plant within 48 hours. Mix a fresh solution daily.
	Chemigation Overhead:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
	Low Volume:	Apply 2-4 quarts/acre [(5-9 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
Transplant and Furrow Application:	Apply 3 pints at planting or to newly planted seedling by side dressing or shank application.		
Pruning Wound and Trunk Canker ( <i>Phytophthora spp.</i> )	Trunk Spray:	Mix 1-3 quarts with 5 gallons of water [(2.5-7 L with 50 L water)].	Use higher rates when lesions are present. Clean the wound site and apply on and around the lesions using enough spray volume to thoroughly wet the lesions. In the absence of lesions, use the lower rate and apply to the trunk from the soil line to 2 feet up the trunk. Apply in Spring, Summer, and Fall.
Downy Mildew	Foliar Spray Aerial:	Apply 1- quarts/acre [(2.5 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
[*]Suppression of Powdery Mildew	Foliar Spray Aerial:  Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.  Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	<b>Low Disease Pressure*</b> : Apply lower the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.

[\*Not registered for use in California.]

## OIL CROPS:

Betel Nut

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<p><i>Phytophthora</i> and <i>Pythium spp.</i></p> <p><b>[*]Suppression of Bacterial and Leaf Diseases such as, Anthracnose (<i>Colletotrichum spp.</i>), and Various Leaf Spots (<i>Septoria</i> and <i>Cercospora spp.</i>)</b></p>	<p>Foliar Spray Aerial:</p>	<p>Apply 1-3 quart/acre [(2.5-7 L/ha)] in a minimum of 15 gallons/acre [(140 L/ha)] of water.</p>	<p>Begin application after plants are established and conditions favor disease development.</p> <p><b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>Disease Control/High Pressure Program*:</b> Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
	<p>Ground:</p>	<p>Apply 1-3 quart/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.</p>	
	<p>Chemigation Overhead:</p> <p>Low Volume:</p>	<p>Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.</p> <p>Apply 2-4 quarts/acre [(5-9 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.</p>	<p>Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.</p>
<p>Downy Mildew</p>	<p>Foliar Spray Aerial:</p> <p>Ground:</p>	<p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.</p> <p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.</p>	<p><b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
<p><b>[*]Suppression of Powdery Mildew</b></p>	<p>Foliar Spray Aerial:</p> <p>Ground:</p>	<p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.</p> <p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.</p>	<p><b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>

[\*Not registered for use in California.]

## PEANUTS

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<p>Root Rots, Pod Rots, Damping Off, Wilt,</p> <p>(<i>Phytophthora</i> and <i>Pythium spp.</i>)</p> <p><b>[*]Suppression</b> of Leaf and Crown Diseases, Anthracnose (<i>Colletotrichum spp.</i>)</p>	<p>Foliar Spray</p> <p>Aerial:</p> <p>Ground:</p> <p>Transplant and Furrow Application:</p>	<p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in minimum of 10 gallons/acre [(95 L/ha)] of water.</p> <p>Apply 1-3 quarts/acre [(2.5-7L/ha)] in minimum of 100 gallons/acre [(280 L/ha)] of water.</p> <p>Apply 3 pints at planting or to newly planted seedlings by side/top dressing or shank application.</p>	<p>Begin application after plants established and conditions disease development.</p> <p><b>Disease Prevention/Low Pressure Program*:</b> Apply lower rate at 1-2 week apply more than 6 times per cycle.</p> <p><b>Disease Control/High Pressure Program*:</b> Apply 10 day intervals. Do not apply more than 6 times per crop</p>

[\*Not registered for use in California.]

## **POME FRUIT CROPS:**

Apple, Loquat, Pear and Quince

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root Rot, Collar rot, Foot Rot and Trunk Cankers <i>(Phytophthora and Pythium spp.)</i>  <b>[*]Suppression</b> of Blister Spot, and Green Mold, Alternaria Blotch, Blister Spot and Pear Black Spot	Chemigation Overhead:	Apply 2-3 quarts/acre [(5-7 in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times crop cycle.  <b>Low Disease Pressure*:</b> Apply lower at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.  <b>High Disease Pressure*:</b> Apply higher at the first onset of the disease. Repeat applications at 7-10 days intervals. Do not apply more than 6 times per crop  Apply during active plant growth. Commence from flowering for Fire blight suppression in combination with registered antibiotics.
	[Low Volume Irrigation:]	[Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of	
	[Foliar Spray]	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
	[Aerial:]	[Apply 1.5-3 quarts/acre [(3.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.]	
	[Ground:]	[Apply 1.5-3 quarts/acre [(3.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.]	
	[Trunk Spray]	[Mix 1.5-3 quarts with [(3.5-7 L)] 5 gallons [(20 L)] of water. Add 0.25% wetting agent to the solution.]	[Apply to trunk lesions using enough volume to thoroughly wet the lesions. In absence of lesions, apply to the trunk from the soil line to about two feet up the trunk.  Use the higher rate when lesions are present. Apply one time in the Spring, Summer and Fall.]
	[Foliar Spray]	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times crop cycle.  <b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.  <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 7-10 days intervals. Do not apply more than 6 times per crop cycle.  Apply during active plant growth. Commence from flowering for Fire blight suppression in combination with registered antibiotics.
	[Aerial:]	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
	[Ground:]	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
<b>[*]Suppression</b> of Powdery Mildew	Foliar Spray	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.	<b>Low Disease Pressure*:</b> Apply lower at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.  <b>High Disease Pressure*:</b> Apply higher at the first onset of the disease. Repeat applications at 7-10 days intervals. Do not apply more than 6 times per crop cycle.
	Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	

<p>[*][<b>Suppression of Fire Blight</b>]</p>	<p>[Foliar Spray Ground:]</p>	<p>[Apply at 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 25 gallons/acre [(235 L/ha)] of water.]</p> <p>[SYSSTEM-CAL BLUE is most effectively applied to control fire blight when tank mixed with other registered bactericides.]</p>	<p>[<b>Low Disease Pressure*</b>: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.] [<b>High Disease Pressure*</b>: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 days intervals. Do not apply more than 6 times per crop cycle.]</p>
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[\*Not registered for use in California.]

## POTATOES

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Pink Rot, Pythium Leak ( <i>Phytophthora infestans</i> , <i>Phytophthora erythroseptica</i> and <i>Pythium</i> spp.)  [*]Suppression of Late Blight	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.	Begin application after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*</b> : Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*</b> : Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle. **Late Blight management using Fungi-Phite Ca requires the high application rate and is most effectively applied when tank mixed with other registered fungicides.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 50 gallons/acre [(470 L/ha)] of water.	
	Chemigation Overhead:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	
	Low Volume:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 4 times per crop cycle.
	Seed Piece Spray:	Mix a 15% v/v solution (0.3 quart/2 quarts of water or [(0.3 L/2 l)] of water). Treat 2 tons of tubers with 1 gallon of solution.	Treat seed pieces with a full coverage spray.
[*]Suppression of Powdery Mildew	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 4 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 4 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 50 gallons/acre [(470 L/ha)] of water.	

[\*Not registered for use in California.]

## ROOT AND TUBER VEGETABLE CROPS, such as:

Artichoke (all types), Beet (all types), Carrot, Chayote, Chervil (turnip-rooted), Chicory, Ginseng, Parsley (turnip- rooted), Radish (all types), Rutabaga, and Turnip

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
<i>Phytophthora</i> and <i>Pythium spp.</i>  [*]Suppression of Foliar and Bacterial Diseases	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	Begin application after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*</b> : Apply lower rate at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>Disease Control/High Pressure Program*</b> : Apply higher rate at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
	Pre-Plant Nursery Seedling Application:	Apply 1 qt/100 gallons water to nursery plants in seedling trays 17 days prior to out planting.	
	Root and Tuber Dip	Mix a 0.5% v/v solution (2 quarts/100 gallons of water or [(0.5 L/100 L)] of water).	
	Chemigation Overhead:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	
	Low Volume:	Apply 2-4 quarts/acre [(5-9 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	Apply with normal irrigation schedule beginning at the 4-6 true leaf stage. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
	Transplant and Furrow Application:	Apply 3 pints at planting or to newly planted seedling by side dressing or shank application.	
Downy Mildew	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.	
[*]Suppression of Powdery Mildew]	[Foliar Spray] [Aerial:]	[Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.]	[ <b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 4 times per crop cycle.] [ <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 4 times per crop cycle.]
	[Ground:]	[Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 50 gallons/acre [(470 L/ha)] of water.]	

[\*Not registered for use in California.]

## STONE FRUIT CROPS:

Apricot, Cherry, Nectarine, Peach, Plum, and Prune

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root Rot, Crown rot, Collar Rot and Foot Rot <i>(Phytophthora and Pythium spp.)</i>	Trunk and Scaffold Branches Spray:	Mix 1-3 quarts [(2.5-7 L)] in 5 gallons [(20 L)] of water and apply with a wetting agent or adjuvant on and around the affected area.	Use higher rates when lesions are present. Clean the wound site and apply on and around the lesions using enough spray volume to thoroughly wet the lesions. In the absence of lesions, use the lower rate and apply to the trunk from the soil line to 2 feet up the trunk. Apply in Spring, Summer, and Fall.
	Root Dip:	Mix a 0.25% v/v solution (1 quart/100 gallons of water or [(0.25 L/100 L)] of water).	Apply as pre-plant dip to the roots for 10 seconds. Plant within 48 hours after dipping. Mix a fresh solution daily.
	Chemigation Overhead:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 4 times per crop cycle.
	Low Volume:	Apply 2-4 quarts/acre [(5-9 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	Apply during the active growing season a maximum of 4 times.
<b>[*]Suppression of Powdery Mildew and other Fungal and Bacterial Diseases such as Fire Blight, (<i>Erwinia spp.</i>) Scab (<i>Venturia spp.</i>) and Blister Spot (<i>Xanthomonas spp.</i>)</b>	Foliar Spray Aerial:  Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.  Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	<b>Low Disease Pressure*:</b> Apply lower rate at the first onset of the disease. Repeat applications at 1-3 week intervals. Do not apply more than 4 times per crop cycle.  <b>High Disease Pressure*:</b> Apply higher rate at the first onset of the disease. Repeat applications at 1-3 week intervals. Do not apply more than 4 times per crop cycle.

[\*Not registered for use in California.]

## STRAWBERRY

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Red Stele, Leather Rot and Root Rot ( <i>Phytophthora</i> and <i>Pythium spp.</i> )  [*]Suppression of Foliar Fungal and Bacterial	Foliar Spray Aerial:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.	Begin application during active plant growth. Repeat on a 2-4 week interval when conditions favor disease development.
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 50 gallons/acre [(470 L/ha)] of water.	Perennial planting: Start Spring applications when the plants start active growth. Repeat application at 2-4 week interval if disease conditions persist or reoccur.
Diseases ( <i>Anthraco</i> se and <i>Rhizopus spp.</i> [and <i>Botrytis</i> ].)	Chemigation Overhead:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	If using Red Stele susceptible varieties or if disease pressure is severe, use higher rates, shortest application time and maximum number of applications. Do not apply more than 6 times per crop cycle.  Grey mold and Anthracnose suppression using SYSSTEM-CAL BLUE requires the use of the high application rates and is most effectively applied when tank mixed with other registered fungicides.
	Low Volume:	Apply 2-4 quarts/acre [(5-9 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
	Transplant and Furrow Application:	Apply 3 pints at planting or to newly planted seedling by side dressing or shank application.	
[*] <i>Phytophthora spp.</i>	Dip:	Mix a 0.25% v/v solution (1 quart/100 gallons of water or [(0.25 L/100 L)] of water).	Dip runners in the solution for 1-2 Plant within 48 hours. Mix a fresh solution daily.
	Leather Rot ( <i>Phytophthora cactorum</i> )	Foliar Spray Aerial:	Start application at 10% bloom and early fruit set. Continue applications on a 7-14 day interval when conditions favor disease development. Under heavy disease pressure, use the higher rate
	Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 50 gallons/acre [(470 L/ha)] of water	7 day interval. Do not apply more than 6 times per crop cycle.
[*]Suppression of Powdery Mildew	Foliar Spray		<b>Low Disease Pressure*</b> : Apply lower
	Aerial:	Apply 1-3 quart/acre [(2.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.	at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle. <i>High Disease Pressure*</i> : Apply higher rate

	Ground:	<p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 50 gallons/acre [(470 L/ha)] of water.</p> <p>[SYSSTEM-CAL BLUE is most effectively applied to control powdery mildew when tank mixed with other registered fungicides.]</p>	<p>at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>
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[\*Not registered for use in California.]

**[\*]TOBACCO**

<b>DISEASE</b>	<b>APPLICATION METHOD</b>	<b>APPLICATION RATE</b>	<b>APPLICATION PROGRAM</b>
<p><i>Phytophthora</i> and <i>Pythium spp.</i> Root Rot and Damping Off</p> <p>Blue Mold (<i>Peronospora tabacina</i>)</p> <p>Black Shank (<i>P. parasitica</i>) and Root Declines</p>	<p>Foliar Spray Aerial:</p> <p>Ground:</p> <p>Pre-Plant Nursery Seedling Application:</p>	<p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.</p> <p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.</p> <p>Apply 1 qt/100 gallons water to nursery plants in seedling trays 1-7 days prior to out planting.</p>	<p>Begin application after plants are established and conditions favor disease development. <b>Disease Prevention/Low Pressure Program*</b>: Apply lower rate at 4 week intervals. Do not apply more than 4 times per crop cycle.</p> <p><b>Disease Control/High Pressure Program*</b>: Apply higher rate at 2 week intervals. Do not apply more than 4 times per crop cycle.</p>
	<p>Chemigation Overhead:</p> <p>Low Volume:</p>	<p>Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.</p> <p>Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.</p>	<p>Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 4 times per crop cycle.</p>

[\*Not registered for use in California.]



## KIWI, OLIVES AND TREE NUT CROPS:

Almond, Chestnut, Filbert, Hazelnuts, Macadamia, Pecan, Pistachio, and Walnut

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root rots, Crown rots ( <i>Phytophthora</i> and <i>Pythium spp.</i> ) Trunk Cankers, Foliar Blights.  [*]Suppression of Foliar Bacterial and Fungal Diseases Anthracnose ( <i>Colletotrichum</i> ), Hull rot ( <i>Monilia spp.</i> ), Flower diseases ( <i>Cladosporium spp.</i> ), Alternaria leaf Spots ( <i>Alternaria spp.</i> ), Raceme Blight ( <i>Phytophthora</i> ) in Macadamia.	Foliar Spray Aerial:    Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.    Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	Begin application during active plant growth after plants are established and conditions favor disease development.  <b>Disease Prevention/Low Pressure Program*</b> : Apply lower rate at 3 month intervals. Do not apply more than 4 times per crop cycle.  <b>Disease Control/High Pressure Program*</b> : Apply higher rate at monthly intervals. Do not apply more than 4 times per crop cycle.
	Root Dip:	Mix a 0.5% v/v solution (2 quarts/100 gallons of water or [(5 L/1000 L)] of water).	Apply as pre-plant dip to the roots for 30 seconds. Plant within 48 hours after dipping. Mix a fresh solution daily.
	Chemigation Overhead:    Low Volume:	Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.    Apply 2-4 quarts/acre [(5-9 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	Apply with normal irrigation schedule. Follow <b>Disease Programs*</b> as stated above. Do not apply more than 6 times per crop cycle.
Pruning Wound, Crown and Trunk Canker ( <i>Phytophthora spp.</i> )	Trunk Spray	Mix 1-3 quarts with [(2.5-7 L)] in 5 gallons [(20 L)] of water.	Use higher rates when lesions are present. Clean the wound site and apply on and around the lesions using enough spray volume to thoroughly wet the lesions. In the absence of lesions, use the lower rate and apply to the trunk from the soil line to 2 feet up the trunk. Apply one time in the Spring, Summer, and Fall.
[*]Suppression of Powdery Mildew	Foliar Spray Aerial:    Ground:	Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.    Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	<b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.  <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 days intervals. Do not apply more than 6 times per crop cycle.

		SYSSTEM-CAL BLUE is most effectively applied to control powdery mildew when tank mixed with other registered fungicides.	
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[Downy Mildew]	[Foliar Spray] [Aerial:]  [Ground:]	[Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 15 gallons/acre [(140 L/ha)] of water.]  [Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 50 gallons/acre [(470 L/ha)] of water.]	[Begin applications at bud break with additional applications made at 7-10 day intervals in rotational programs with other labeled fungicides. Use higher rates and volumes based on disease severity and density of canopy. Do not apply more than 6 times per crop cycle.]
[*] Scab ( <i>Cladosporium caryigenum</i> )	[Foliar Spray] [Ground:]	[Apply 1-1.25 quarts/acre [(2-3 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water]	[Apply SYSSTEM-CAL BLUE in a spray schedule beginning at bud break, continue on a 10-14 day interval. Applications to the nuts may be alternated with other labeled fungicides.]  [Do not apply SYSSTEM-CAL BLUE to pecans in less than 100 gal/acre.] [ <b>Low Disease Pressure*</b> : Apply lower rate at the first onset of the disease. Do not apply more than 6 times per crop cycle.] [ <b>High Disease Pressure*</b> : Apply higher rate at the first onset of the disease. Do not apply more than 6 times per crop cycle.]

[\*Not registered for use in California.]

\*Check with your local Extension Agent or Crop Consultant if you are unsure about disease prevention, control or severity/pressure.

\*\*Suppression: SYSSTEM-CAL BLUE has suppressive properties on diseases caused by certain bacteria or fungi. When applying SYSSTEM-CAL BLUE for disease suppression, use it in combination with another registered bactericide or fungicide registered for the same crops listed on this label.



[Downy Mildew]	[Foliar Spray] [Aerial:]  [Ground:]	[Apply 1-2 quarts/acre [(2.5-5 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.] [Apply 1-2 quarts/acre [(2.5-5 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.]	[ <i>Low Disease Pressure*</i> : Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.] [ <i>High Disease Pressure*</i> : Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.]
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[\*Not registered for use in California.]

## ORNAMENTALS, such as:

Annual and Perennial Flowers, Bedding Plants, Foliage Plants, Ground Covers, Deciduous and Evergreen Trees and Shrubs in the field, Container, and Conifer Nursery, Lath or Shade House, Greenhouse, Residential, Commercial and Municipal Landscapes. *Use in Greenhouses:* Ornamentals and Bedding Plants such as: Ageratum, Aglaonema, Algerian Ivy, Anthurium, Aphelandra, Arborvitae, Artemisia, Aster, Azaleas, Baby's Breath, Begonia, Bougainvillea, Boxwood, Caladium, Carnation, Cattelya Skinneri, Ceanothus, Chrysanthemum, Cissus, Coleus, Columbine, Cotoneaster, Daisy, Delphinium, Dieffenbachia, Dogwood, Easter Lily, English Ivy, Ficus, Foxglove, Gaillardia, Geranium, Gloxinia, Hibiscus, Impatiens, Japanese Holly Juniper, Leather-Leaf Fern, Marigold, Monterey Pine, Pansy, Peperomia, Petunia, Philodendron, Phlox, Photinia, Pieris, Pinks, Pittosporum, Poinsettia, Pothos, Primrose, Prostrate Rosemary, Rhododendron, Salvia, Schefflera, Sedum, Sempervivum, Snapdragon, Spathiphyllum, Taxus Media, Verbena, Vinca, White Cedar, White Pine, Zinnia, Zygocactus, etc.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Root and Crown Rots, Stem Cankers and Foliar Blight. <i>(Phytophthora and Pythium spp.)</i>  [*] <i>Suppression</i> ** of Foliar Diseases	Foliar Spray Aerial:	Apply 1-2 quart/acre [(2.5-5 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.	Apply at 2-3 week intervals and repeat as needed. Use the lower rate on sensitive plants. For greenhouse applications, do not exceed the lower rate (1 quart/100 gallons/acre of water or 2 L/950 L/ha of water). Do not apply more than 6 times per crop cycle.
	Ground:	Apply 1-2 quarts/acre [(2.5-5 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
	Soil Drench	Mix 6-13 fl oz (180-390 ml) in 100 gallons [(380 L)] of water.	Apply 25 gallons of solution per 100 square feet. Irrigate to distribute solution through soil. Repeat as required. Limit to one application per month.
	Soil Incorporation	Mix 1-2 pints/cubic yard (600-1200 ml/m <sup>3</sup> ) of soil.	Mix immediately before potting. If conditions are favorable for disease development, a foliar spray or soil drench application will enhance protection.
	Root Dip	Mix a 0.25% v/v solution 1 quart/100 gallons of water or [(1 L/400 L)] of water.	Dip transplants into diluted mixture keeping roots submerged for 20-30 seconds. Plant within 48 hours. Make a fresh solution daily.
	Chemigation Overhead:	Apply 2 quarts/acre [(5 L/ha)] in a minimum of 1,000 gallons/acre [(9,350 L/ha)] of water.	Apply with normal irrigation schedule. Follow Foliar Spray <i>APPLICATION PROGRAM</i> as stated above. Do not apply more than 6 times per crop cycle.
	Low Volume:	Apply 1-2 quarts/acre [(2.5-5 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Downy Mildew	Foliar Spray Aerial:           Ground:	Apply 1-2 quart/acre [(2.5-5 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.  Apply 1-2.5 quarts/acre [(2.5-5.5 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	<p><i>Low Disease Pressure*</i>: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><i>High Disease Pressure*</i>: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 days intervals. Do not apply more than 6 times per crop cycle.</p> <p>Application amount depends upon plant type, maturity and application technique/method.</p>
[*] <i>Suppression**</i> of Powdery Mildew	Foliar Spray Aerial:           Ground:	Apply 1-2 quart/acre [(2.5-5 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.  Apply 1-2 quarts/acre [(2.5-5 L/ha)] in a minimum of 50 gallons/acre [(470 L/ha)] of water.  [SYSSTEM-CAL BLUE is most effectively applied to control powdery mildew when tank mixed with other	<p><i>Low Disease Pressure*</i>: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.</p> <p><i>High Disease Pressure*</i>: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.</p>

[\*Not registered for use in California.]

**CONIFERS IN COMMERCIAL NURSERIES, LANDSCAPE TREES, PLANTATIONS,  
FORESTRY AND PARK APPLICATIONS<sup>1</sup>, such as:**

Christmas Tree Varieties, Firs, Spruces, Ash, Pines, Beech, Cedar, Chestnut, Crab Apple, Dogwood, Elm, Fir, Hawthorn, Juniper, Linden, Oaks, Birch, Eucalyptus and Willow.

<b>DISEASE</b>	<b>APPLICATION METHOD</b>	<b>APPLICATION RATE</b>	<b>APPLICATION PROGRAM</b>
Root Rot and Trunk Cankers <i>(Phytophthora Pythium spp.)</i>  [*] <i>Suppression**</i> of Foliar Diseases  [*] Enhancement of Mycorrhization	Foliar Spray Aerial:	Apply 1-2 quarts/acre [(2.5-5 L/ha)] in a minimum of 20 gallons/acre [(190 L/ha)] of water.	Apply as a light cover spray to foliage. Apply at 2-4 week intervals and repeat as needed. Final application amounts depend on plant type, maturity, and application technique/method. Do not apply more than 4 times per crop cycle.
	Ground:	Apply 1-2 quarts/acre [(2.5-5 L/ha)] in a minimum of 100 gallons/acre [(950 L/ha)] of water.	
	Soil Drench	Mix 1-2 quarts [(2.5-5 L)] in 100 gallons [(380 L)] of water.	Apply 0.25-0.5 pints/sq ft [(4-8 L/m <sup>3</sup> )] of the diluted mixture. Irrigate sufficiently to wet active root zone. Apply at a 2-4 week interval and repeat as needed. Do not apply more than 4 times per crop cycle.
	Root Dip	Mix a 0.25% v/v solution (1 quart/100 gallons of water or [(1 L/400 L of water)]).	Dip transplants into diluted mixture keeping roots submerged for 1 to 2 minutes. Plant within 48 hours. Make a fresh solution daily.
Christmas Trees	Soil Drench	1 gallon/acre immediately after transplanting then 2 qt/acre every 30 days for 3 applications in the active growing season.	

<sup>1</sup>Use in California is limited to Oaks (Coastal, live, Shreve, Black, and Canyon), Tan Oaks and other tree species that are host to *P. ramorum*. Applications limited to injection and basal bark spray of pines, apples and cranberries, and injection of Sycamores for control of Sycamore anthracnose. Do not apply to any other tree species without consulting the list of *P. ramorum* host species listed at the following website: <http://nature.berkeley.edu/comtf/index/html>

Stem and Canker Blight ( <i>Phytophthora ramorum</i> ) i.e. Sudden Oak Death <sup>1</sup>	Trunk Injection	Make up a 15% v/v solution of SYSSTEM-CAL BLUE (20 fl oz/gallon of water or [(150 ml/L)] of water).	Inject (according to injection equipment instructions) 0.5 fl oz (15 ml) of the diluted SYSSTEM-CAL BLUE solution into one injection hole. <i>Dosage:</i> One (1) injection per yard (or meter) of canopy diameter at the drip line. (I.e. a tree with 6 yards (or meters) of canopy diameter will require 6 injections via 6 separate injection holes). <i>Curative:</i> Inject 2 times per year in the Spring and Fall.  <i>Preventative:</i> Inject 1 time in the Spring.
	[*] Bark Applications	Mix SYSSTEM-CAL BLUE and water in a 1:1 ratio (i.e. 1 gallon of SYSSTEM-CAL BLUE plus 1 gallon of water). Add to this 3 oz (100 ml) of a silicon based surfactant.	Apply the Fungi-Phite Ca T&O solution from the base of the tree to approximately 5 feet (1.5 M) above ground, ensuring complete bark coverage. Spray over active lesions if they are accessible.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
[Downy Mildew]	[Foliar Spray] [Aerial:]  [Ground:]	[Apply 2-3 quarts/acre [(5-7 L/ha)] in a minimum of 15 gallons/acre [(140 L/ha)] of water.]  [Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 50 gallons/acre [(470 L/ha)] of water.]	[Begin applications at bud break with additional applications made at 7-10 day intervals in rotational programs with other labeled fungicides. Use higher rates and density of canopy. Do not apply more than 6 times per crop cycle.]
[*] <i>Suppression</i> ** of Powdery Mildew]	[Foliar Spray Aerial:]  [Ground:]	[Apply 1.5-2 quarts/acre [(3.5-5 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.] [Apply 1.5-2 quarts/acre [(3.5-5 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.]  [SYSSTEM-CAL BLUE is most effectively applied to control powdery mildew when tank mixed with other registered fungicides.]	[ <i>Low Disease Pressure</i> *: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.] [ <i>High Disease Pressure</i> *: Apply higher rate at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.]

[\*Not registered for use in California.]

## TURF (Warm & Cool season)<sup>\*\*\*</sup>, such as

Golf Course, Athletic Fields, Sod Farms, Residential, Amenity, Commercial and Municipal Lawns

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
[*] <i>Pythium spp.</i> and <i>Phytophthora</i> (except California)	Foliar Spray	Mix 4-6 fl oz (133-200 ml) in 1-2 gallons [(4-8 L)] of water.	Begin preventative applications when conditions first favor disease. Apply 1-2 gallons of diluted mixture/1,000 sq ft [(48 L/100 m <sup>2</sup> )] as a light cover spray. Apply at a 1-4 week interval as needed. Do not mow or irrigate treated area until sprays have completely dried.
Pythium Blight		6 fl oz/1000 sq. ft.	Apply at 7 day intervals.
Suppression** of Brown Patch ( <i>Rhizoctonia spp.</i> ) and Anthracnose ( <i>Colletotrichum</i> )		6 fl oz/1000 sq. ft. Apply at 1.5 gallons per 1000 sq. ft.	Apply at 7 day intervals.  Turf disease management is significantly improved when Fungi-Phite Ca T&O is used at the high labeled rate and is most effectively applied used when tank mixed with other registered fungicides.

[\*Not registered for use in California.]

## TURF TANK MIXTURES\*\*\*

For *Suppression\*\** or control of summer stress diseases caused by a complex of *Pythium spp.*, *Colletotrichum spp.* and *Rhizoctonia spp.* Also for improvement of existing fungicide programs and the minimization of resistance development in pathogenic fungi. Tank mix this product with fungicides from the classes of Fungicides as listed below in accordance with the most restrictive label limitations and precautions. Do not exceed label dosage rates. This product cannot be mixed with any product containing a label prohibiting against any such mixing. To determine the compatibility of this fungicide with other products, use a jar compatibility test. Add the correct proportions of each product and the appropriate quantity of water to a clean container. Thoroughly mix and let stand for 3-5 minutes. If the mixture remains in solution or can be remixed readily, the products are considered compatible.

DISEASE	APPLICATION METHOD	APPLICATION RATE	APPLICATION PROGRAM
Complex of <i>Pythium spp.</i> , <i>Colletotrichum spp.</i> and <i>Rhizoctonia spp.</i>	Tank mix with a registered fungicide for these turf declines such as a dithiocarbamate, a Triazole, a benzimidazole, a strobilurin or a Chloronitrile fungicide.	Follow product label.	Follow the most restrictive product label.
[Downy Mildew]	[Foliar Spray] [Aerial:]  [Ground:]	[Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.]  [Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.]	[Low Disease Pressure*]: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.]  at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.]
[Suppression** of Powdery Mildew]	[Foliar Spray] [Aerial:]  [Ground:]	[Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 10 gallons/acre [(95 L/ha)] of water.]  [Apply 1-3 quarts/acre [(2.5-7 L/ha)] in a minimum of 30 gallons/acre [(280 L/ha)] of water.]  [SYSTEM-CAL BLUE is most effectively applied to control powdery mildew when tank mixed with other registered fungicides.]	[Low Disease Pressure*]: Apply lower rate at the first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per crop cycle.]  at the first onset of the disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per crop cycle.]

\*Check with your local Extension Agent or Crop Consultant if you are unsure about disease prevention, control or severity/pressure.

“Suppression: SYSTEM-CAL BLUE has suppressive properties on diseases caused by certain bacteria or fungi. When applying SYSTEM-CAL BLUE for disease suppression, use it in combination with another registered bactericide or fungicide registered for the same crops listed on this label.

\*\*\*Do not graze livestock or poultry in treated turf areas. Do not feed forage or clippings from treated turf areas to livestock or poultry.

**[\*]Potatoes**

<b>DISEASE</b>	<b>APPLICATION RATE</b>	<b>APPLICATION PROGRAM</b>
Suppression** of Late Blight ( <i>Phytophthora infestans</i> ) and Pink Rot ( <i>Phytophthora erythroseptica</i> )	Tuber low volume spray: Apply 1-3 pints of SYSSTEM-CAL BLUE per ton of tubers in 0.5-1 gallons of water as a spray.  Dipping: Make up a 1 % v/v solution of SYSSTEM-CAL BLUE	Ensure complete and even coverage. If dipping, ensure that potato tubers are immersed in solution for at least 30 seconds.

[\*Not registered for use in CA unless accompanied by supplemental labeling]

**Citrus including, but not limited to Grapefruit, Lemons, Limes, Oranges (sour and sweet), Tangelos, Tangerines, Citrus CitronClementines, Kumquat, and Pummelo**

<b>DISEASE</b>	<b>APPLICATION RATE</b>	<b>APPLICATION PROGRAM</b>
Suppression** of Brown rot ( <i>Phytophthora</i> spp)., Green Mold ( <i>Penicillium digitatum</i> ) and Blue Mold ( <i>Penicillium italicum</i> ) & Sour Rot ( <i>Geotrichum candidum</i> )	Make up a 2% v/v solution of SYSSTEM-CAL BLUE in water. Use approximately 100 gallons of diluted solution per 30 bins# of fruit.  For applications to aqueous sprays prior to washing, apply 3 pints per 25 gallons spray mixture.	Ensure complete and even coverage and that fruit is drenched for at least 60 seconds.

#Note: Average Bin Weight = 800 lbs or 30 bins weigh 12 Tons

**[\*]For use on Avocado, Pome Fruit (Apples, Pears, Loquat, Quince), Stone Fruit [Apricots, Cherry (sour), Cherry (sweet), Nectarine, Peach, Plum, Prune], Banana, Mango, Papaya, Guava, Carambola, and Carrots in a Drench Tank or as a Spray**

<b>CROP</b>	<b>DISEASE</b>	<b>APPLICATION RATE</b>	<b>APPLICATION PROGRAM</b>
Avocado	Suppression** of Anthracnose ( <i>Colletotrichum spp.</i> ) <i>Dithiorella</i> and <i>Cercospora spp.</i>	Apply 1-1.5 gallons SYSSTEM-CAL BLUE per 100 gallons of water. Use approximately 100 gallons of diluted solution per 30 bins# of fruit.	Ensure complete and even coverage. Replace solution every 30 bins of fruit.
Pome Fruit	Suppression** of Brown Rot ( <i>Phytophthora spp.</i> ) Blue Mold ( <i>Penicillium spp.</i> ) Bitter Rot ( <i>Glomularia spp.</i> ) and <i>Monolinia spp.</i>	Apply 1-1.5 gallons SYSSTEM-CAL BLUE per 100 gallons of water. Use approximately 100 gallons [(950 L)] of diluted solution per 30 bins# of fruit.	Ensure complete and even coverage. Replace solution every 30 bins of fruit.
Stone Fruit	Suppression** of Brown Rot ( <i>Phytophthora spp.</i> ) ( <i>Monolinia spp.</i> ) Grey Mold ( <i>Botrytis</i> ) and Blue Mold ( <i>Penicillium spp.</i> )	Apply 1 gallon SYSSTEM-CAL BLUE per 100 gallons of water. Use approximately 100 gallons of diluted solution per 30 bins# of fruit.	Ensure complete and even coverage. Replace solution every 30 bins of fruit.
Bananas	Suppression** of Crown Rot ( <i>Fusarium spp.</i> ), Anthracnose ( <i>Colletotrichum spp.</i> ) Speckle, Freckle and Finger Rot	Dehanding Tank: Apply 2-3 gallons SYSSTEM-CAL BLUE per 200 gallons of water. Replenish every 2 days.  Fungicide Application: Apply as a spray mix with other fungicides at 1-2 pints SYSSTEM-CAL BLUE per 25 gallons of	Apply to dehanding tank after fruit has passed through the delatexing tank. Apply as a part of the post-harvest fungicide treatment.
Mangos, Papayas, Lychee, Carambola, and Guava	Suppression** of Anthracnose <i>spp.</i> , Black Spot, Chocolate Spot, <i>Cercospora</i> , <i>Alternaria</i> , <i>Botryodiplodia</i> , <i>Phomopsis</i> , <i>Cladosporium</i>	Fruit Dip: Make up a 2% v/v solution of SYSSTEM-CAL BLUE in water. Use one gallon of the diluted mix per 4,000 lbs. of fruit.	Ensure complete and even coverage. Apply with other fungicides in hot or cold water.

Carrots	<i>Suppression**</i> of Cavity Spot, Fusarium Rot, Phytophthora Rot, Grey Mold ( <i>Botrytis cineria</i> ) Crown Rot and Black Rot	Apply 3 pints SYSSTEM-CAL BLUE per 75 gallons of water. Use one gallon of the diluted mix per 6,000 lbs. of carrots	Immerse carrots for 5-10 seconds prior to storage. Replace solution when it appears dirty.
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[\*Not registered for use in CA unless accompanied by supplemental labeling]

#Note: Average Bin Weight = 800 lbs or 30 bins weigh 12 Tons

**[\*]For use on Cut Flowers, Roses and Chrysanthemums**

<b>CROP</b>	<b>DISEASE</b>	<b>APPLICATION RATE</b>	<b>APPLICATION PROGRAM</b>
Roses, Chrysanthemums, Carnations and Other Cut flowers	For the <i>Suppression**</i> of post-harvest storage rots, including Botrytis, Anthracnose, vascular wilts and soft rots	Apply 0.5-1.5 pints SYSSTEM-CAL BLUE per 100 gallons in the hydrating solution.  Use the lower rate (0.5 pints/100 gallons when low pest pressure is present. Use the higher rate (1.5 pints/100 gallons when high pest pressure is present	Ensure complete and even coverage of cut flower stems when immersing. Do not immerse the flower heads.

[\*Not registered for use in CA unless accompanied by supplemental labeling]

\*\*\*Suppression: SYSSTEM-CAL BLUE has suppressive properties on diseases caused by certain bacteria or fungi. When applying SYSSTEM-CAL BLUE for disease suppression, use it in combination with another registered bactericide or fungicide registered for the same crops listed on this label.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage and disposal.

**PESTICIDE STORAGE:** Store in a cool, dry place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:**

**Nonrefillable Container (five gallons or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and

recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Nonrefillable Container (greater than five gallons):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**Refillable Container:** Refillable container. Refill this container with SYSSTEM-CAL BLUE only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**[FOR CHEMICAL EMERGENCY ONLY (SPILL, LEAK, OR FIRE), CALL [CHEMTREC AT 1-800-424-9300].]**

#### **LIMITED WARRANTY AND DISCLAIMER**

It is the manufacturer's intention that this product is to be used in accordance with the Directions for Use as stated on this label. The use of this product being beyond control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such use or the results to be obtained if not used in accordance with printed directions and established safe practice. To the fullest extent permitted by law, the buyer's exclusive remedy and manufacturer's or seller's exclusive liability for any and all claims, losses, damages or injuries resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort or otherwise, shall be limited, at the manufacturer's option, to replacement of, or the repayment of the purchase price for, the quantity of product with respect to which damages are claimed.

Manufactured by: Agro-K Corporation, 8030 Main Street, Minneapolis, MN 55432